

DERWENT-ACC-NO: 1997-379982
DERWENT-WEEK: 199735
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TITLE: Electric power generation for portable equipment - by
deforming
magnetostriction component fixed in heel of footwear through
walking of user to
generate induced electromotive force

PATENT-ASSIGNEE: BROTHER KOGYO KK[BRER]

PRIORITY-DATA: 1995JP-0319133 (December 7, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC		
JP 09163771 A	June 20, 1997	N/A	009
H02N 002/00			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP09163771A	N/A	1995JP-0319133
December 7, 1995		

INT-CL_(IPC): A43B003/00; H01L041/12 ; H02N002/00

ABSTRACTED-PUB-NO: JP09163771A

BASIC-ABSTRACT: The method involves generating a magnetic field
through a coil
(11). The generated magnetic field varies according to the
deformation of a
magnetostriction component (10) fixed in the heel (2) of a
footwear (1).

The magnetostriction component is deformed through walking of a
user. An
induced electromotive force is generated by the variation of the
magnetic
field.

ADVANTAGE - Enables stable and continuous generation of electric
power by using
durable magnetostriction component. Prevents increase in size by
using small
magnetostriction component. Provides simple composition and
reduces operation
cost.

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS:

ELECTRIC POWER GENERATE PORTABLE EQUIPMENT DEFORM
MAGNETOSTRICTIVE COMPONENT
FIX HEEL FOOTWEAR THROUGH WALKING USER GENERATE INDUCE
ELECTROMOTIVE FORCE

DERWENT-CLASS: P22 V06 X27

EPI-CODES: V06-M06H; X27-A02B1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-316166

DERWENT-ACC-NO: 1989-272637
DERWENT-WEEK: 198938
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TITLE: Superconducting electrical generator - has energy loss in oscillating circuit compensated by electromagnetic induction for superconducting windings

INVENTOR: GUERIN, B

PATENT-ASSIGNEE: GUERIN B[GUERI]

PRIORITY-DATA: 1988FR-0001547 (February 3, 1988)

PATENT-FAMILY:

PUB-NO	MAIN-IPC	PUB-DATE	LANGUAGE	
FR 2626729 A		August 4, 1989	N/A	C10
	N/A			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
FR 2626729A	N/A	1988FR-0001547
February 3, 1988		

INT-CL_(IPC): H02N002/00; H02N011/00

ABSTRACTED-PUB-NO: FR 2626729A

BASIC-ABSTRACT: Two piezo-electric, ferroelectric or magnetostrictive elements are provided in an arrangement of resonant cavities with the aim of determining the variable polarisation of these elements and thus a high intensity electric current. The polarisation is determined by an ultrasonic wave method. The exciting elements (1) are ultrasonic wave generators and the elements (2) are resonators and they create an alternating current (3). The elements vibrate under the effect of a voltage produced by an oscillating RLC circuit (8,9,1). The energy dissipation in the oscillating circuit is compensated by electromagnetic induction from a superconducting winding (10) forming a primary winding and by ordinary auxiliary windings (11) forming the

secondary.

The superconducting windings take a compensation current from the main current without Joule effect nor impedance, and therefore without energy alteration to this current. This type of lossless sampling by a superconducting winding can be done on any variable current and notably on the oscillating circuit itself.

ADVANTAGE - Does not require any other external energy.

CHOSEN-DRAWING: Dwg.2/3

TITLE-TERMS:

SUPERCONDUCTING ELECTRIC GENERATOR ENERGY LOSS OSCILLATING
CIRCUIT COMPENSATE
ELECTROMAGNET INDUCTION SUPERCONDUCTING WIND

DERWENT-CLASS: X11

EPI-CODES: X11-H05;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1989-208236